

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only
nternational Application No.
nternational Filing Date
lame of receiving Office and "PCT International Application"
unlicantia as acceptia file and

	Applicant's or agent's file reference (if desired) (12 characters maximum) 209791/KCS/nlb
Box No. I TITLE OF INVENTION	
A COMMUNICATION SYSTEM	
	on is also inventor
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	the address indicated in this ice is indicated below.)
NOKIA CORPORATION	Facsimile No.
KEILALAHDENTIE 4 02150 ESPOO	Teleprinter No.
FINLAND	Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country) of residence:
	d States except the United States the States indicated in the states of America only the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	
Name and address: (Family name followed by given name; for a legal entithe address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence Aki NIEMI Messeniuksenkatu 9 A 33 00250 Helsinki Finland	ity, full official designation. he address indicated in this ce is indicated below.) This person is: applicant only Applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country) of residence: F
F-3	d States except tates of America only the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated or	
Box No. IV AGENT OR COMMON REPRESENTATIVE;	· · · · · · · · · · · · · · · · · · ·
The person identified below is hereby/has been appointed to act or of the applicant(s) before the competent International Authorities a	as: representative
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of co	ty, full official designation. Telephone No.
Kelda Camilla Karen STYLE PAGE WHITE & FARRER	Facsimile No.
54 Doughty Street London WC1N 2LS	Teleprinter No.
United Kingdom	Agent's registration No. with the Office
Address for correspondence: Mark this check-box where n space above is used instead to indicate a special address to w	no agent or common representative is/has been appointed and the which correspondence should be sent.

Form PCT/RO/101 (first sheet) (March 2001; reprint January 2003)

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Sheet	Nω	_

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Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)						
If none of the following sub-boxes is used, this sheet should not be included in the request.						
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this	This person is:					
Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	applicant only					
Jose COSTA-REQUENA	X applicant and inventor					
Karjalankatu 11 A 11	· • · · · · · · · · · · · · · · · · · ·					
00520 Helsinki	inventor only (If this check-box is marked, do not fill in below.)					
Finland						
	Applicant's registration No. with the Office					
State (that is, country) of nationality: State (that is, country) Fl	of residence:					
	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designation.	This person is:					
The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)						
	applicant only					
Mohan SIVANANDAN	applicant and inventor					
Taivaanvuohentie 10 A 13	inventor only (If this check-box					
00200 Helsinki	is marked, do not fill in below.)					
Finland	Applicant's registration No. with the Office					
State (that is, country) of nationality: State (that is, country)	of residence:					
	the United States the States indicated in					
	the United States the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is:					
·	applicant only					
Markus ISOMAKI	x applicant and inventor					
Ajurinkatu 3 B 43	inventor only (If this check-box					
02600 Espoo Finland	is marked, do not fill in below.)					
riniano	Applicant's registration No. with the Office					
State (that is, country) of nationality: State (that is, country) FI State (that is, country)	of residence:					
This person is applicant all designated all designated States except	he United States the States indicated in					
	of America only the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designation.	This person is:					
The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	applicant only					
Pekka PESSI						
Keiteleentie 1 C 18	applicant and inventor					
00550 Helsinki	inventor only (If this check-box is marked, do not fill in below.)					
Finland						
	Applicant's registration No. with the Office					
State (that is, country) of nationality: State (that is, country) of F	of residence:					
	ne United States the States indicated in the Supplemental Box					
Further applicants and/or (further) inventors are indicated on another continuation sl	heet.					

Form PCT/RO/101 (continuation sheet) (March 2001; reprint January 2003)

Sheet	Nο	3

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) If none of the following sub-boxes is used, this sheet should not be included in the request.						
Name and address: (Family name followed by given name; for a legal entity, full official desi The address must include postal code and name of country. The country of the address indicate Box is the applicant's State (that is, country) of residence if no State of residence is indicated below Christophe BOURET Pormestarinrinne 13 A 1 00160 Helsinki Finland State (that is, country) of nationality: State (that is, country)	ed in this					
FR FI						
for the purposes of: States the United States of America	the United States of America only the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official desig The address must include postal code and name of country. The country of the address indicate Box is the applicant's State (that is, country) of residence if no State of residence is indicated below	d in this					
State (that is, country) of nationality: State (that is,	country) of residence:					
This person is applicant all designated all designated States except for the purposes of:	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official desig The address must include postal code and name of country. The country of the address indicated Box is the applicant's State (that is, country) of residence if no State of residence is indicated below	d in this					
State (that is, country) of nationality: State (that is, country)	country) of residence:					
This person is applicant for the purposes of: all designated states except the United States of America	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official desig The address must include postal code and name of country. The country of the address indicated Box is the applicant's State (that is, country) of residence if no State of residence is indicated below	l in this					
State (that is, country) of nationality: State (that is, co	ountry) of residence:					
This person is applicant for the purposes of: all designated States except the United States of America	the United States the States indicated in the Supplemental Box					
Further applicants and/or (further) inventors are indicated on another continu	uation sheet.					

Form PCT/RO/101 (continuation sheet) (March 2001; reprint January 2003)

						SECC. 14			<u> </u>
Во	x No	. V	DESIGNATION OF STATE	s	λ	Aark the applicable check-boxes belov	, at	leas	t one must be marked.
			ng designations are hereby made	unc	ler R	ule 4.9(a):			
Re	gio	nal P	'atent						
X	AP	SI. Sta	Sierra Leone, SZ Swaziland, Tate which is a Contracting State	ZU:	nited the I	bia, KE Kenya, LS Lesotho, MW Republic of Tanzania, UG Uganda, Harare Protocol and of the PCT (if o	ZM ther	Zan kind	nbia, ZW Zimbabwe, and any other d of protection or treatment desired
X	EA	RU				aijan, BY Belarus, KG Kyrgyzstan, Turkmenistan, and any other State			
	EP	Re IE	public, DE Germany, DK Denn Ireland, IT Italy, LU Luxembo	nark urg,	, EE MC	n, BG Bulgaria, CH & LI Switzerlar Estonia, ES Spain, FI Finland, FR Monaco, NL Netherlands, PT Portu Contracting State of the European P	Fran gal, S	ce, SE	GB United Kingdom, GR Greece, Sweden, SI Slovenia, SK Slovakia
X	OA	GA TD	Gabon, GN Guinea, GQ Equa Chad, TG Togo, and any other	tori Sta	al G te wi	n, CF Central African Republic, CG uinea, GW Guinea-Bissau, ML Mal nich is a member State of OAPI and in dotted line)	i, M a Coi	R Natra	Mauritania, NE Niger, SN Senegal, cting State of the PCT (if other kind
Na	tior	al P	atent (if other kind of protection	ı or	treat	tment desired, specify on dotted line):			
X	ΑE	Unit	ed Arab Emirates						New Zealand
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						Israel			
						India			
			baijan					RU	Russian Federation
						Japan			
			pados			Kenya			
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					KP				Sweden
			rus			of Korea			
						Republic of Korea			
		Cana				Kazakhstan			
			Switzerland and Liechtenstein						Tajikistan
X	CN	Chin	a						Turkmenistan
X	co	Colo	mbia	X	LR	Liberia Lesotho	X.	ΓN	Tunisia
X	CR	Cost	a Rica	X	LS	Lesotho	X	ΓR	Turkey
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						to the designations made above, the			
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any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Form PCT/RO/101 (second sheet) (January 2003)



Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which Agents continues a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in
 - if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

JENKINS, Peter David (GB) DRIVER, Virginia Rozanne (GB) DANIELS, Jeffrey Nicholas (GB) SHCKLETON, Nicola (GB) SLINGSBY, Philip Roy (GB) HILL, Christopher Michael (GB) RUUSKANEN, Juha-Pekka (FI) WILLIAMS, David John (GB) EVANS, Marc Nigel (GB) EVENSON, Jane Harriet (GB)

PAGE WHITE & FARRER 54 Doughty Street London WC1N 2LS United Kingdom

Form PCT/RO/101 (supplemental sheet) (March 2001; reprint January 2003)

Sheet	Nο	6

Box No. VI PRIORITY	CLAIM	· · · · · · · · · · · · · · · · · · ·				
The priority of the following	g earlier application(s) is here	by claimed:				
Filing date of earlier application	Number	Where earlier application is:				
(day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office		
item (1) 14/06/02	0213726.3	GB				
item (2)		·				
item (3)						
item (4)						
item (5)						
Further priority claims	are indicated in the Suppleme	ntal Box.				
if the earlier application was above as: all items item (* Where the earlier application industrial Property or one Months. Box No. VII INTERNAT. Choice of International Sea international search, indicate ISA /	on is an ARIPO application, in the world Trade Organization of the Authority chosen; the two-	the purposes of this internation (3) item item (3) item item (3) item dicate at least one country ganization for which that e THORITY wo or more International Steletter code may be used):	tional application is the reconstruction (4) item (5) party to the Paris Converantier application was file.	other, see Supplemental Box ntion for the Protection of ed (Rule 4.10(b)(ii))		
International Searching Authority (day/month/year)	rlier search; reference to the ority): Number		arch nas been carriea ou Ty (or regional Office)	t by or requested from the		
Box No. VIII DECLARAT	TONS					
The following declarations a check-boxes below and indica	are contained in Boxes Nos. V	VIII (i) to (v) (mark the ap ber of each type of declara	plicable tion):	Number of declarations		
Box No. VIII (i)	Declaration as to the identity	of the inventor	•	:		
Box No. VIII (ii)	Declaration as to the applicate, to apply for and be gra	ant's entitlement, as at the	international filing	• .		
Box No. VIII (iii)	Declaration as to the applic date, to claim the priority o	•	e international filing	: :		
Box No. VIII (iv)	Declaration of inventorship United States of America)	(only for the purposes of	the designation of the	:		
Box No. VIII (v)	Declaration as to non-prejuc	dicial disclosures or excep	tions to lack of novelty	:		

Form PCT/RO/101 (third sheet) (July 2002; reprint January 2003)

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Sheet No.	•

Box No. IX CHECK LIST;	LANGUAGE	OF FILI	NG		
This international application co (a) in paper form, the followin sheets:		right c	nternational application is accompanied by the follow (mark the applicable check-boxes below and indicate solumn the number of each item): fee calculation sheet	ring in	Number of items
request (including declaration sheets)	: 7		original separate power of attorney	:	:
description (excluding			original general power of attorney		
sequence listings and/or tables related thereto)	: 13	1	copy of general power of attorney; reference numb	er	•
claims	: 4		if any:	61, 	:
abstract	: 1		statement explaining lack of signature		:
drawings	:4	6.	priority document(s) identified in Box No. VI as item(s):		
Sub-total number of sheets sequence listings	: 29	7. 🗆	translation of international application into (language):		
tables related thereto	:	8. 🗆	separate indications concerning denosited microorg		
(for both, actual number of sheets if filed in paper form,		9. 🗆	or other biological material	:	
whether or not also filed in computer readable form; see (c) below)		-	(indicate type and number of carriers)		
Total number of sheets	: 29		copy submitted for the purposes of international and Rule 13ter only (and not as part of the internation	al application):	
(b) only in computer readal (Section 801(a)(i))		(11)	(only where check-box (b)(i) or (c)(i) is marked in le additional copies including, where applicable, the purposes of international search under Rule 13ter	eft column) copy for the	
(i) sequence listings (ii) tables related thereto		(iii)	together with relevant statement as to the identity copies with the sequence listings mentioned in less	of the convor	
(c) also in computer readal (Section 801(a)(ii))		10. 🗆	tables in computer readable form related to sequence (indicate type and number of carriers)		
(i) sequence listings (ii) tables related thereto		. (i)	copy submitted for the purposes of international s Section 802(b-quater) only (and not as part of the application)	search under international	
Type and number of carriers CD-ROM, CD-R or other) on contained the	s (diskette, which are	(ii)	(only where check-box (b)(ii) or (c)(ii) is marked in additional copies including, where applicable, the purposes of international search under Section 80	left column) copy for the	
sequence listings:		(iii)	together with relevant statement as to the identity	of the copy or	
☐ tables related thereto: (additional copies to be indica. items 9(ii) and/or 10(ii), in rig.	ted under		copies with the tables mentioned in left column other (specify):	:	
	ni cotumnj	-			
Figure of the drawings which should accompany the abstract:		internati	ge of filing of the onal application:		
Box No. X SIGNATURE OF Next to each signature, indicate the name	F APPLICANT e of the person sign	Γ, AGEN'. ning and the	FOR COMMON REPRESENTATIVE capacity in which the person signs (if such capacity is not obvious	s from readine the r	recniest)
					eginally.
KELDA CAMILLA KAREN	STYLE, Prof	essiona	I Representative		
Date of actual receipt of the printernational application:	urported	rof re	ceiving Office use only	2. Drawings	::
Corrected date of actual receipt	t due to later b			received	<u> </u>
timely received papers or draw the purported international app	rings completin	g 			ĺ
	Date of timely receipt of the required corrections under PCT Article 11(2):				
5. International Searching Author (if two or more are competent):	ity ISA/		6. Transmittal of search copy delayed until search fee is paid		
		For Intern	national Bureau use only		
Date of receipt of the record copy by the International Bureau:					